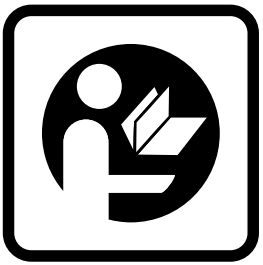


General safety instructions

- Only qualified persons over 18 years of age can be permitted to use a stud driver. These persons must know perfectly how the tool works and must follow exactly the manufacturer's instructions and the safety regulations. They must be capable of maintaining the tool.
- The charges and studs used must be **exclusively** those designed and manufactured by SPIT for this tool.
- The SPITFIRE P370 must be checked before use, so as to ensure that the safety devices are working properly and that the front end and the munition carrier are clean. Also ensure that the moving part generally slides well.
- The tool must be loaded just before use. If the tool is not in use, it must be unloaded and put back into its original packing. It must not under any circumstances be transported loaded.
- When firing, the operator must be in a stable position. The tool must be held at right angles to the base material.
- When a firing incident occurs, the tool must be unloaded immediately, taking all necessary precautions. If several incidents occur, inform the manufacturer.
- The SPITFIRE P370 and its chargers must only be transported in their original packing.
- Never point the end of the stud driver at anyone. The driver must always be pointed downwards.
- Never operate the driver with the flat of the hand.
- **The manufacturer must check the condition of the tool, even if it is not used, at least once a year.**
- It is prohibited for unauthorized persons to use a stud driver.

  It is prohibited to make any modification to the tool other than those specified in this manual.
- It is prohibited to do stud driving on profiled sheet on a metal structure before having ensured that there is no-one behind it.
- Fixing must not be attempted at a point where the profiled sheet support iron has been damaged or is defective. Fixing must be done at least 2 cm away from this area.
- It is prohibited to attempt fixing on materials which are not rigid or strong enough: hollow brick, plasterboard, slate, etc.
- It is prohibited to drive studs into brittle, hard materials, like cast iron, hardened steel, marble or granite.
- It is prohibited to do any fixing on concrete less than 10 cm from the edges.

  It is prohibited to use a stud driver in workshops or other premises where there are explosion risks.
- When using the tool, the user and bystanders must wear suitable safety glasses, a hard hat and hearing protection.

General

GB

- The SPITFIRE P370 is a **high-tech** stud driver.
  - Automatic rising of the inertia block
  - Automatic feeding of studs
  - Automatic feeding of charges
- It is designed for fixing on concrete and steel.
- It is an indirect firing tool, of class A symbol A*, complying with French standards NFE 71-100 and 71-101.
- The SPITFIRE P370 requires two conditions to obtain percussion:
  - To be held firmly resting against the support.
  - To press the trigger.
- Detailed instructions for use are presented in the following pages of this manual. It is essential to familiarize yourself with them before using your SPITFIRE P370.

This tool is approved by the St-Etienne Testing Stand under n° 001137

Technical characteristics

SPITFIRE P370

Category .....Indirect firing - class A
Symbol A*
French standards: NFE 71100-71101

Approval .....CIP no. 001137

Length without magazine ..... 440 mm

Length with magazine ..... 455 mm

Weight without magazine .....2.7 kg

Weight with magazine .....2.875 kg

Automatic rising of the inertia block

Strength setting with indicator

Magazine capacity.....10 studs

Possibility of indexing of magazine 4 positions

CHARGES

Compliance with French standards ..... NFE 71-100
and E 71-101 and C. I. P. regulations

Calibre .....6.3 / 10

Strength

Brown ..... very light

Green ..... light

Yellow .....medium

Red .....heavy

10 unit charger disc

Box of 10 discs

STUDS

Studs without a strip ..... box of 100 units

Studs with a strip ..... box of 500 units
+ 1 rubber spring

Using the tool

GB

Fitting the charger disc

- Unlock the cover (see **fig. 1**).
- Put the disc correctly into its housing
- Close the cover

Inserting the stud (without a magazine)

- Insert the stud in the stud guide until it is held by the plastic guide (see **fig. 2**).

Never use the flat of the hand to push the stud back

Pin indicating presence of studs in the magazine

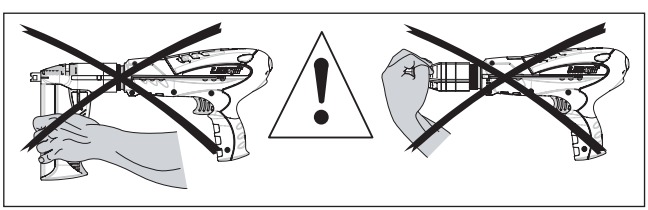
- When one or more studs are in the magazine, **it is impossible** to insert another strip (see **fig. 3**).
- The projecting pin indicates the presence of studs in the magazine

Inserting a strip of studs (with a magazine)

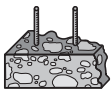
- Unlock the magazine's cover (see **fig. 4**).
- Pull the magazine cover back
- Insert the strip of studs
- Close the magazine cover (automatic locking)

Firing

- Apply the tool at right angles to the material (see **fig. 5**).
- Hold the tool with both hands, exerting forward pressure, and press the trigger. .



Choosing the stud

Standard applications		Length thread	Length stud	Designation	Code
Concrete consumables 	C9 rivet head stud 		20	C 9-20	**032740**
			25	C 9-25	**032520**
			30	C 9-30	**032530**
			35	C 9-35	**032540**
			40	C 9-40	**032550**
			50	C 9-50	**032560**
			60	C 9-60	**032570**
			70	C 9-70	**032580**
	With pre-drinving		80	C 9-80	**032590**
			90	C 9-90	**032600**
	Rivet head stud CR9 Ø 14 washer 		25	CR 9-25	**032070**
			30	CR 9-30	**032100**
			40	CR 9-40	**032090**
			50	CR 9-50	**032010**
			60	CR 9-60	**032020**
			70	CR 9-70	**032030**
	Strip stud 		20	C 9-20	**011330**
			25	C 9-25	**011331**
			30	C 9-30	**011332**
			35	C 9-35	**011333**
			40	C 9-40	**011334**
			50	C 9-50	**011335**
			60	C 9-60	**011336**
	Nota : accessories with pre-fitted studs can be used (Studs - Posibanche - A Clip)				
Steel consumables 	SC9 rivet head stud 		15	SC 9-15	**032500**
			20	SC 9-20	**032510**
			25	SC 9-25	**032950**
			30	SC 9-30	**032930**
			35	SC 9-35	**032940**
			40	SC 9-40	**032920**
			50	SC 9-50	**032910**
			60	SC 9-60	**032900**
			70	SC 9-70	**032890**
	SA9 rivet head stud 			Ø 6 x 100	
		6	21	SA 9-6 6/21	**034820**
		10	25	SA 9-6 10/25	**034850**
		15	30	SA 9-6 15/30	**034900**
				Ø 7 x 150	
		6	21	SA 9-7 6/21	**034000**
		10	25	SA 9-7 10/25	**034050**
		15	30	SA 9-7 15/30	**034070**
				for Ø 8, use the SPIT P250	
	Strip stud 		15	SC 9-15	**011340**
			20	SC 9-20	**011341**
			25	SC 9-25	**011342**
			30	SC 9-30	**011343**
			35	SC 9-35	**011344**
			40	SC 9-40	**011345**
			50	SC 9-50	**011346**
			60	SC 9-60	**011347**

Using the tool

GB

Choosing the charge
(see **fig. 6**)

- **031740** brown 6.3/10 disc charge - very light
- **031600** green 6.3/10 disc charge - light
- **031700** yellow 6.3/10 disc charge - medium
- **011658** red 6.3/10 disc charge - heavy

Choosing the strength
(see **fig. 7**)

■ **Tips :**

Choose according to :

• the nature and hardness of the support material

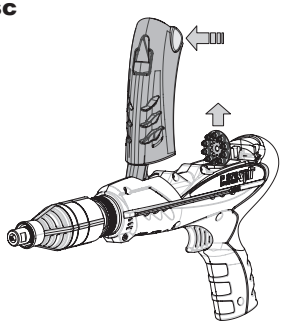
• the length of the stud

• the nature of the part to be fixed

Proceed by successive trials, beginning with the lightest strength, then increase if necessary.

If the charge has misfired, wait for 20 seconds, keeping the tool on the work surface, then stop pressing in order to reset the percussion system and to resume firing.

Removing the charger disc



■ Unlock the cover

■ Remove the disc

The tool must always be emptied after use and before storage in the box. Partially used charger discs must be kept for later use.

Checking the wear parts

■ The tool is equipped with a rubber spring (3) (for the return of the inertia block), an inertia block + insulation ring assembly (2) (see **fig. 8**).

■ These parts must be checked at regular intervals

Wear part	Check
Spring (3)	- length (min. 161 mm) - Condition (cuts, wear, etc.)
Insulation ring + inertia block (2)	- Thickness (mini 4 mm) - Condition (cuts, wear, etc.) - No chipped part on the inertia block

Front part

Always unload the tool:

- on completion of work,
- before changing any parts (inertia block, dampers, etc.)
- before doing any cleaning or maintenance

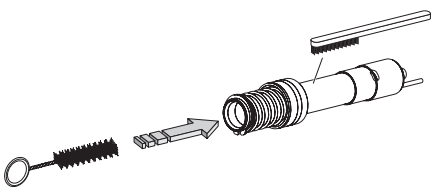
Disassembly

- Hold the tool vertical, resting on the back (see **fig. 9**)
  • Unscrew the tool's nose (stud guide or magazine).
  If the effort seems too great, use a 16 mm spanner.
- Take out the inertia block with the ring and the spring (see **fig. 10**)
- Unscrew and take out the barrel assembly (push the barrel downwards and turn (see **fig. 11**)

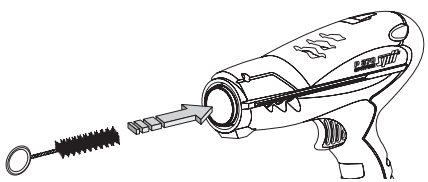
Cleaning

Use the cleaning accessories contained in the box.

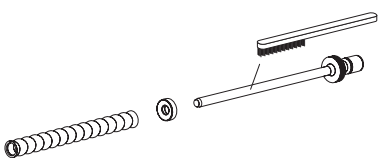
Cleaning the front part of the tool and in particular the inside bore of the barrel holder is necessary every 2000 firings or each day if the tool is used in light strength.



- Cleaning of the inside of the barrel (medium sponge), of the outside with the brush.



- Cleaning of the handle bore (brush + sponge)



- Cleaning of inertia block (brush the rod)
  • Check the condition of the spring (min. length 161 mm). If necessary, use the marks on the handle's casing.
  • Check the condition of the insulation ring.

- To check the wear parts, refer to the previous chapter.

Cleaning (continued)

Damage to the end of the inertia block can be the cause of poor fixing:
- fixing not at right angles
- shearing of the stud on penetration

• Check the wear or possible deformation of the inertia block. Deformation of the end can be trued up by grinding up to 3 mm by making a chamfer.
Keep the ground surface at right angles to the centre line of the inertia block.

TIPS

Powder-actuated tools require regular maintenance to remove the carbon deposited by combustion fumes. Whenever the tool requires unusual force, or when there is a lack of strength or percussion of the charge without driving in the stud, dismantle the front part and clean the bore of the barrel, the charge and the inertia block.

It is essential to use SPIT lubricant for maintenance. We recommend wiping parts after oiling them.

Reassembly

Reassembly is the reverse of disassembly

- Position the barrel's groove at the top (see **fig. 12**)
- Insert the barrel assembly in the handle and screw the knurled ring
- After reassembly, check that the barrel slides properly in the handle
- Insert the insulation ring on the inertia block's rod

  Insert the rubber ring on the rod
- Position the inertia block assembly in the barrel
- Screw up the magazine (until the first "click" and turn once) or the stud guide.

Troubleshooting

EFFECTS	CAUSES	REMEDIES
Malfunctioning of the charge feed or percussion device	- Insufficient force on the tool when resting it on the support	- Hold the tool resting on the support
	- The charger disc has not turned	- Check the condition of the small bar
	- Munition carrier sleeve not sliding properly	- Disassemble, clean
	- Malfunctioning of the charger disc	- Check it
	- No more studs in the magazine	- See magazine pin
	- Barrel dirty	- Disassemble, clean
	- Tool too hot	- Allow to cool
Barrel jammed at the back	- Moving assembly (barrel) dirty)	- Disassemble, clean
	- Tool too hot	- Allow to cool
Lack of power or fluctuation in power	- Deterioration of the inertia block	- Change it
	- Inertia block very eroded	- Change it
	- Deterioration of the spring	- Change it
	- Deterioration of the insulation ring	- Change it
Too much force needed to rest the tool on the support	- Barrel dirty	- Clean, oil and reassemble
	- Presence of foreign matter	- Clean, oil and reassemble
Impossible to close the magazine's cover	- More than 10 studs in the magazine	- Remove the studs
	- Stud guide not sliding properly	- Contact SPIT's after-sales service department
Jamming of the inertia block	- Strip residues stuck	- Clean
Poor stud feed	- Presence of residues in the magazine	- Clean
	- Stud guide not sliding properly	- Contact SPIT's after-sales service department

P370 BACK PART

Only your SPIT agent or his representative is authorized to disassemble this assembly.